

FORM PTO-1449 (Modified)

LIST OF PATENTS AND PUBLICATIONS FOR
APPLICANT'S INFORMATION DISCLOSURE
STATEMENT

(Use several sheets if necessary)

ATTY. DOCKET NO.
10274-1-1SERIAL NO.
07/317,107

APPLICANT

Thomas G. Zimmerman

FILING DATE
2/28/89GROUP
266

REFERENCE DESIGNATION

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE
APD	AA	4,074,444	02/21/88	Laenger, Charles J.		
APD	AB	4,715,235	12/29/87	Fukui et al.		
II	AC	4,665,388	05/12/87	Ivie et al.		
II	AD	4,660,033	04/21/87	Brandt, Gordon		
II	AE	4,654,520	03/31/87	Griffiths, Richard		
II	AF	4,586,335	05/06/86	Hosoda et al.		
II	AG	4,634,856	01/06/87	Kirkham, Randy		
II	AH	4,613,139	09/23/86	Robinson, II, William		
II	AI	4,586,387	05/06/86	Morgan et al.		
II	AJ	4,581,491	04/08/86	Boothroyd, Arthur		
II	AK	4,579,006	04/01/86	Hosoda, Yuji		
II	AL	4,558,704	12/17/85	Petrofsky, Jerrold		
II	AM	4,553,393	11/19/85	Ruoff, Carl F.		
II	AN	4,544,988	10/01/85	Hochstein, Peter		
II	AO	4,542,291	09/17/85	Zimmerman, Thomas		
APD	AP	4,540,176	09/10/85	Baer, Ralph		
	AQ	4,524,340	06/18/85	Lefkowitz, Leonard R.		

FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
SUX APD AR	SU 1,225,525	04/23/86	Russia		
DEX APD AS	DE 3334395	04/11/85	Germany		
DEX APD	DE 3,442,549	11/22/84	Germany		

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

- ~~APD~~ AT "One-Point Touch Input of Vector Information for Computer Displays"
C. Herot and G. Weinzapfel, Computer Graphics, Vol. 12, No. 3, August 1978.
- ~~APD~~ AU "Digital Actuator Utilizing Shape Memory Effect", Honma, et al.
lecture given at 30th Anniversary of TOKAI Branch foundation on Jul 14, 1981.

EXAMINER

ALVIN OBERLEY
DATE RECD

DATE CONSIDERED

30 May 89

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APD	BA 4,414,984	11/15/83	Zarudiansky, Alain			
	BB 4,414,537	11/08/83	Grimes, Gary			
APD	BC 4,408,495	10/11/83	Robert Couch, et al.			
	BD 4,355,805	10/26/82	Baer, et al.			
APD	BE 4,302,138	11/24/81	Zarudiansky, Alain			
	BF 4,209,255	06/24/80	Heynau, Hans A.			
APD	BG 4,059,830	11/22/77	Threadgill, Murray			
APD	BH 3,777,086	12/04/73	Riedo, Otto			
	BI 3,510,210	05/05/70	Haney, Von			
APD	BJ 2,356,267	08/22/44	Pelunis, R.J.			
APD	BK 1,335,272	03/30/20	Broughton, Douglas J.			

FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
BL					
BM					

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

APD BN "Micro Manipulators Applied Shape Memory Effect", Honma et al., paper presented at 1982 Precision Machinery Assoc. Autumn Conference on October 20. (Also in Japanese)

APD BO "Magnetoelastic Force Feedback Sensors for Robots and Machine Tools" John M. Vranish, National Bureau of Standards, Code 738.03.

APD BP "Analysis of Muscle Open and Closed Loop Recruitment Forces: Preview to Synthetic Proprioception", Solomonow, et al., IEEE Frontier of Engineering and Computing in Health Care, 1984.

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CA						
CB						
CC						
CD						

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DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
CE					
CF					
CG					

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

AKO CH "Shape Memory Effect Alloys for Robotic Devices", Schetky, L.
Robotics Age, July, 1984, pp. 13-17.
ABO CJ "Laboratory Profile", R & D Frontiers
AKO CK "Hitachi's Robot Hand", Robotics Age, July, 1984

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